# User Charge Analysis

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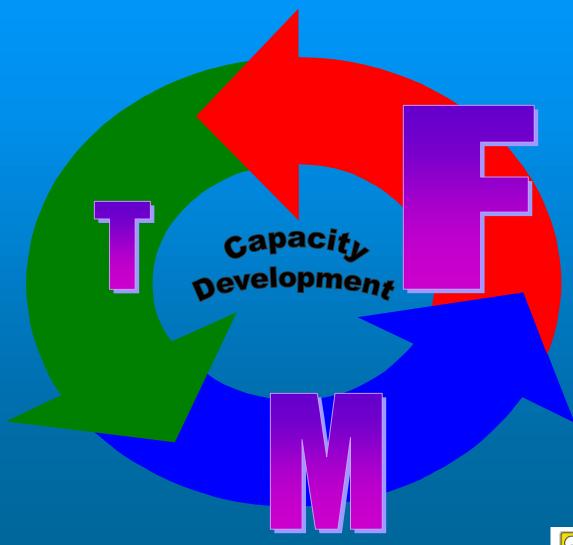


## Agenda

Introduction
Why you need an analysis
Key ratios and indicators
Show-me Ratemaker software
demonstration
Wrap-up/Questions



### TMF Watch





## Why Analyze?

#### Do our rates:

- Cover current costs?
- Cover future costs?
- Cover repairs, replacements and unexpected expenses?
- Charge our customers fairly?



## Why Analyze?

### As a system, are we:

- Able to build new facilities?
- Going to apply for grants/loans?
- Being challenged by the economy,
   by inflation or interest rates?
- Growing or declining?



# The Bottom Line on "Why Analyze"

What is our TMF Capacity today?

How will it look in the future?



## To Answer Those Questions

Analyze operations and expenses (Called TMF Assessment)

Improve operations/cut expenses

Analyze rates, propose adjustments

Build support for new rates Adjust rates, track results



# Types of Rates

Proportional to use rates are based on the volume of water or sewer service each customer receives (use neutral.)

Cost to serve rates are based on the costs that each customer or customer class causes the system to incur (use neutral.)



# Types of Rates

Conservation rates go up as volume usage goes up (encourage water conservation.)

Declining rates go down as use goes up (encourage water consumption.)

Arbitrary rates are ... arbitrary.



# Why Proportional Rates?

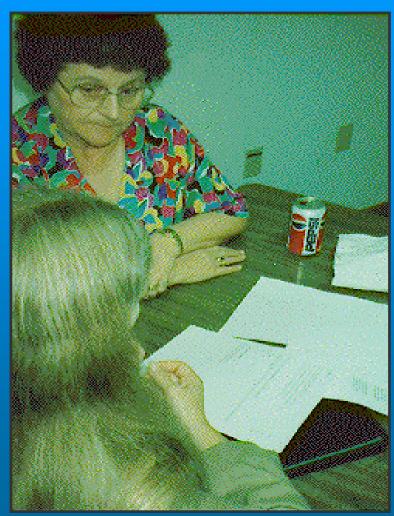
Hancock amendment (tax vs. fee)
Grants and loans

- Required for some department funding
- Preferred by others

Proportional is simple, easy to understand, and fair



# The Analysis Will Help you Track



**Operating ratio** 

Coverage ratio

Other key indicators



# Operating Ratio

Total
Operating
Revenue

Total Operating Expenses

= Operating Ratio



# Operating Ratio

#### Revenues include: Expenses Include:

- User fees
- Hook-up fees
- Taxes
- Interest
- Cash carry over/ fund transfers
- Other revenues

- Administration
- Wages
- Benefits
- Utilities
- Supplies
- Other (non-debt)operating
- expenses



# Operating Ratio

"Break-even" operating ratio is 1.0

Less than 1.0 and you are operating in the red (at least on paper).

- > 1.15 -- for larger systems
- > 1.30 -- for smaller systems
- > 1.50 -- Moody's target ratio

> 1.20 -- for CDBG funding



## Coverage Ratio

Revenue Available for Debt Service

= Coverage Ratio

Annual Debt Service Expenses



## Coverage Ratio

Banks, other lenders and bond buyers consider coverage ratio a good ratio of sound fiscal management

Less than 1.0, you can't pay your debt

- > 1.25 is a common target
- > 1.90 Moody's target for high bond rating



### Affordability Index

The percentage of annual median household income (AMHI) needed to pay for a utility service (water, sewer, etc.)

CDBG looks for user fees > 1.5 % of the average residential customer's AMHI



## A Good User Charge Analysis Should: Show you current and projected financial status

Help you develop new rates; allow you to see future projections

Help in grant and loan applications

Help schedule funds needed for system R & R



# A Good User Charge Analysis Should:

Show you key financial indicators:

 affordability index, operating ratio, coverage ratio

Demonstrate the rate effects of:

• fixed and variable costs, R & R costs, interest and inflation rates



# A Good User Charge Analysis Should:

Give you graphical illustrations for management decisions and public meeting forums



# Information you Need for an Analysis

Current rate chart and other charges

Customer usage and actual revenue data for past 12 months

Misc. fees and all other revenues

**Fund Reserves** 

R & R schedule



# Information you Need for an Analysis

Capital improvements planned Operating and debt expenses Growth rate of your community Total water produced or total sewage volume treated Estimate of water losses or sewer system I & I



# Having Cost and Revenue Problems?

### Step 1: Assess TMF

- Identify potential problem areas
- Improve operations
- Reduce expenses





# Questions?



### To the Software





### For Technical Assistance

#### **Environmental Assistance Office**

- Show-me Ratemaker Software and workshops on our Home page: www.dnr.mo.gov/oac/lgov.htm
- Call EAO at 1-800-361-4827
  Other agencies (RPCs, MAP, etc.)
  Private consultants/engineers



# Summary The Secret to a Great Analysis:

Just do it.
Then do it some more.

Analysis is something you learn as you go, and the product gets better as you work on it.



# Questions?





# Postscript



### Points To Remember

Good rate structures are based on good budgets and good records.

Arbitrarily adding \$3 to every bill seldom results in fair and equitable rates.



### Points to Remember

Rate structures should be easy for customers to understand and easy for you to administer.

Fee policies should be in writing and enforced.



### Points to Remember

A utility's revenues should not be used to pay for other municipal services, or vice versa.

Customers and citizens should know why rates are set as they are. By performing the analysis, you can tell them.



### Short-term TMF Solutions

### Customer billing

Make sure billing is timely

#### Bill all users

- Hospitals, schools, churches
- Other government departments like police, city parks, public buildings



### Short-term TMF Solutions

Overdue accounts make the majority of customers subsidize slow payers.

Strictly enforce collection and shut off policies.

Increase penalties.



### Short-term TMF Solutions

# Have meter-readers look for signs of water theft such as:

- Illegal tapping
- Meter Tampering
- Meter by-pass



## Key Points

# Don't Forget about the Hancock Amendment:

- Fees can be raised without an election (vote of the people)
- Taxes cannot



# Key Points (cont.)

#### Abide by the Sunshine Law

Neglect the Sunshine Law and you can be sued and your rate increases can be voided.

